

Design of Packed Towers for Chemisorption
Conditions, by I. P. Slobodyanik,
A. G. Kasatkin, V. V. Kafarov, 6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved
Khim i Khim Tekh, Vol II, No 6, 1959,
pp 956-961.

ATS-73M43R

ATS/2468

Sol
Vol IV, No 9
Mar 62

187, 023

(NY-3807).

First All-Union Conference of Higher Educational
Institutions on Radiochemistry of the USSR, by
A. V. Lapitskiy, An. N. Nesmeyanov, 8 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol II, No 6, 1959, pp 974-977.

JPRS 2807

118,680

Sci - Chem
Jun 60

Compressibility of Aqueous Solutions of Non-
Electrolytes, by I. V. Persianova, V. V. Tarasov.
RUSSIAN, per, Iz VUZ Khimiya i Khim Tekh,
Vol III, No 1, 1960, pp 4-7.
NRC C-4977

Apr 67

323,078

Usmanov, A. G. and Berezhnoi, A. N.
GENERALIZATION OF EXPERIMENTAL DATA ON
THERMAL DIFFUSION OF GASES, tr. by
B. W. Kuvshinov. 6 Sep 61, 7p. 8 refs. APL/JHU
TG 230-T248.
Order from OTS \$0.50

61-31627

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 1, p. 8-13.

DESCRIPTORS: *Experimental data, *Thermal dif-
fusion, *Gas diffusion, Gases, Diffusion, Separation,
Mixtures, Chemical analysis, Temperature, Heat
transfer, Thermodynamics, Thermochemistry.

The relative separation of a binary gas mixture
during thermal diffusion is described by the equation
(Chemistry--Physical, TT. v. 7, no. 1) (over)

61-31627

I. Usmanov, A. G.
II. Berezhnoi, A. N.
III. APL/JHU TG 230-T248
IV. Contract NOrd 7386

41 AEA, Rong

Navy 2944/
APL

Office of Technical Services

T248

Interaction of Molecular and Atomic Chlorine With
Metallic Silver, by V. S. Gurman, V. A. Vishnevskiy,
G. B. Sergeyev, 5 pp.

RUSSIAN, per, Izvestiya Vysshikh Ucheb. Zaved, Khim
i Khim, Tekhnol, Vol III, No 1, 1960, pp 29-32.

CIA/FID XX-1027

NOT RELEASABLE TO FOREIGN NATIONALS

ATS/KT-343

Sci - Chem

Jul 61

16/015

USIE INTERNAL USE ONLY

ON THE DEPENDENCE OF THE POSITIVE MINIMUM
ELECTRICAL CONDUCTIVITY ON THE PERMITTIVITY
OF THE MEDIUM, BY A. M. SHKODIN,

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED:
KHIM I KHIMICH TEKHN, VOL 1, 1960, PP 36-40.

NLL RTS 1809

SCI - ELECTRON

JUN 62

199,897

Kinetics of the Reaction of Ethylene
Oxide with Aniline, by N. N. Lebedev,
M. M. Smirnova.
RUSSIAN, per, Izvestiya VUZ Khimiya i
Khimicheskaya Tekhnologiya, Vol 3, No 1,
1960, pp 104-108.
ATB-14583R

Sci-Chem
Aug 66

309,203

DESTRUCTION OF THE SECONDARY LAYER OF THE
CELL WALL BY X BLUE STAIN FUNGI, BY
I. G. KRAPIVINA.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED LES ZHUR,
VOL III, NO 1, 1960, PP 130-133.

NLL M.4648

SCI - ENGR

JUN 62

199,159

S-512/59

(DC-4059)

Investigation of the Vapor Phase Nitration of
Cyclopentane Hydro-Carbons. III. Nitration of
Propylcyclopentane, by M. A. Peredreyeva, Ya. I.
Denisenko, S. S. Novikov, 6 pp.

RUSSIAN, per, Iz Vysshykh Ucheb Zaved SSSR,
Khim i Khim Tekh, Vol III, No 2, 1960, pp 312-315.

JPRS 3559

Sci - Chem

Aug 60

122,846

Fild, R. M., Chirikova, A. V. and others.
RESEARCH IN THE FIELD OF STEAM PHASE CATALYTIC SYNTHESIS OF VINYL ACETATE. [1961]
14p. 10 refs.
Order from RIS \$25.00 RIS D-774

Trans. of [Izvestiya Vysshikh Uchebnykh Zavedenii].
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 2, p. 343-351.

DESCRIPTORS: *Vinyl radicals, *Acetates, Synthesis.
Catalysts, Steam, Chemical reactions.

(Chemistry--Organic, TT, v. 7, no. 10)

62-12417

- I. Fild, R. M.
- II. Chirikova, A. V.
- III. RIS D-774
- IV. Research Information Service, New York

Office of Technical Services

Capability of Intramolecular Combustion of
Inorganic Ammonium Salts, by A. A. Chidlovskiy,
6 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khimiya
i Khim. Tekh., Vol III, No 3, 1960, pp 405-407.
9670226

FTD

~~2228~~ MCL-848/1

175-TH-5-548

161,360

Sci - Chem

Jul 61.

Priselkov, Yu. A., Sapozhnikov, Yu. A. and others.
SOME PROBLEMS OF THE ACCURACY OF THE
EFFUSION METHOD FOR DETERMINING THE
SATURATED VAPOR PRESSURE OF INDIUM. [1962]
[7]p. 3 refs.

Order from OTS or SLA \$1.10

63-13398

Trans. of Izvest[ia] Vysshikh Uchebn[ykh] Zaved[enii].
Khim[ia] i Khimicheskaya Tekhnologiya (USSR)
[1960, v. 3] no. 3, p. 447-451.

DESCRIPTORS: *Indium, *Vapor pressure, Silver,
Heat, *Diffusion.

Silver and indium were used in ascertaining the conditions required for employing high-frequency heating to determine vapor pressure by Knudsen's method. An improved effusion chamber was used in studying the effect of the axial temperature gradient. It was found that the vapor pressure within the effusion chamber is (Physics--Solid State, TT, v. 10, no. 4) (over)

63-13398

- I. Priselkov, Yu. A.
- II. Sapozhnikov, Yu. A.
- III. Translations, New York

Office of Technical Services

Use of Radioactive Isotopes in the Study of the Diffusion Processes, Accompanied by Phase and Chemical Transformations, by A. D. Sotskov.

RUSSIAN, per, Izvestiya VUZ. Khim i Khim Tekhnol., No 3, 1960, pp 452-456.

*NTIS TT 72-52020

Aug 72

A Thermochemical Gas Analyzer for Continuous
Detection of Oxygen, by G. P. Tsypliyatnikov,
V. B. Aleskovskiy, 16 pp.

RUSSIAN, per. Iz Vyssh Ucheb Zaved Khim
i Khim Tekh. Vol III, 1960, pp 550-557
9679306

FTD-TT-62-1554

Sci-Chem
Apr 63

226, 713

The Problem of the Volatility of Niobium
Oxides, by I. V. Golubtsov, et al.
RUSSIAN, per, Izv VUZ Khim i Khim Tekhnol.
No 4, 1960, pp 571-574.
NASA TT F-10,224

Sci-Chem
Aug 66

308,9212

Kinetics of Ammonia Synthesis on an Iron
Catalyst With Addition of Uranium, by
A. P. Zasorin, V. G. Khalabuzar, Ye. I.
Pizin.

RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedeniy, Khimiya i Khim Tekhnologiya,
Vol III, No 4, 1960, pp 695-698.

* Dept of Interior

Sch - Chem

62-23272

Mar 62

Hydrogen Overvoltage on Porous Iron and Iron-Nickel Cathodes in Electrolysis of a Sodium Chloride Solution, by I. B. Dymashenko, L. A. Gorbachevskaya, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i Khimicheskaya Tekh, No 4, 1960, pp 699-706. 9673045

FTD-TT-61-134

Sci - Chem
15 Feb 62

182,614

Roskin, E. S.
COMPARATIVE DETERMINATION OF MOLECULAR
WEIGHTS OF ACRYLONITRILE BY THE METHODS
OF LIGHT SCATTERING AND VISCOSIMETRY. [961]
[7]p. 7 refs.
Order from OTS or SLA \$1.10

61-18677

Trans. of [zvest[iya] Vysshikh Ucheb[nykh] Zavedenii.
Khim[iya] [Khim[icheskaya] Tekhnol[ogiya] (USSR)
1960, v. 3, no. 4, p. 721-724.

DESCRIPTORS: *Acrylonitriles, *Molecular weight,
Determination, Viscosity, Viscosimeters, Light,
Scattering.

The determination of the weight average molecular
weight of a non-fractionated polyacrylonitrile by the
simpler viscosimetric method gave almost the same
results as the more complicated but more correct light
(Chemistry--Organic, TT, v. 6, no. 10) (over)

61-18677

I. Roskin, E. S.

HEC UCTE Tr-745 (4)
9097024

Office of Technical Services

(DC-5880)

Inter-Vuz Scientific Conference, by N. P.
Opolovnikova, V. L. Kiseleva, 2 5 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim 1
Khim Tekh, Vol III, No 7, 1950, pp 771-775.

JPRS 8660

Sci - Chem
Aug 61

163,294

Starkov, S. P. and Spryskov, A. A.
THE FORMATION OF SULFONES AND THE CORRE-
SPONDING SULFONIC ACIDS DURING THE SULFONA-
TION OF BENZENE. Pt. 52 of Study of the Sulfonation
Reaction. [1961] 5p.
Order from ATS \$8.35

ATS-40N50R

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1960, v. 3, no. 5, p. 868-871.

61-22135

1. Benzenesulfonic acids--
Synthesis
2. Sulfones--Synthesis
3. Benzene--Chemical
reactions

- I. Starkov, S. P.
- II. Spryskov, A. A.
- III. Title: Study...
- IV. ATS-40N50R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS-RJ-2932
134121

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 11)

Novikov, G. I., Makarenaya, A. A. and others.
AN IMPROVED CIRCULATION METHOD FOR DE-
TERMINING DISSOCIATION PRESSURE. [1962] [10]p.
28 refs.

Order from OTS or SLA \$1.10

63-13399

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR) 1960
[v. 3] no. 5, p. 952-958.

DESCRIPTORS: *Gas analysis, Chemical equilibrium,
Thermodynamics, Thermal dissociation.

An improved circulation apparatus using semimicro-
chemical and thermoconductometric methods of gas
analysis is described for investigating chemical
equilibria and determining the dissociation pressure of
binary compounds. Experiments were performed in-
cluding a study of the system: $\text{FeCl}_2(\text{solid}) + \text{H}_2 =$
(Chemistry--Physical, TT, v. 10, no. 4) (over)

63-13399

I. Novikov, G. I.
II. Makarenaya, A. A.
III. Translations, New York

Office of Technical Services

Ivanova, L. I.
 SUR LA FORMATION DES ALUMINO-SILICATES
 DANS LES MASSES DE FUSION DU SYSTEME
 $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ (Formation of Aluminosilicates
 in the Melts of the $\text{Na}_3\text{AlF}_6 - \text{Al}_2\text{O}_3 - \text{SiO}_2$ System). 11p.
 16 refs. FR-1747.
 Order from OTS, ETC or CNRS \$0.80 62-26521

Trans. in French of Izvestiya Vsesoyuznogo Nauchno-Issledovatskogo
 Zavodeniia Khimii i Khimicheskaya Tekhnologiya 1960,
 v. 3 [no. 5] p. 970-974.

DESCRIPTORS: *Aluminum compounds, *Silicates,
 Cryolite, Oxides, Melting, Sodium compounds.

(Chemistry, TT, v. 10, no. 7)

62-26521

I. Ivanova, L. I.
 II. FR-1747
 III. Centre National de la
 Recherche Scientifique
 (France)

Office of Technical Services

The Synthesis of Some C_{15} -- C_{16} Cyclohexane
Homologs Which Have Increased Volumetric
Heat of Combustion, by Ye. B. Sokolova,
M. P. Shebanova, 7 pp.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zaved
Khim i Khimicheskaya Tekh, Vol. III, No 6,
1960, pp 1040-1044. 9664207

FTD-TT-61-279

Sci - Chem

2 Mar 62

186,193

A Reaction of Orthocarboxyphenylsulphuric Acid,
by V. M. Klyuev, V. F. Borodkin.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khiz Tekh, Vol III, No 6, 1960, pp 1079-1081.

MLL RTS 2022

Sci - Chem

Aug 52

207,571

(SF-1879)

Conference on Kinetic Methods of Analysis, by V. P.
Vasil'yev, V. D. Korableva, K. B. Yatsimirskiy, 7 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim i
Khim Tekh, Vol III, No 6, 1960, pp 1113-1116.

JPRS 4996

Sci - Chem

170,441

Oct 61

INVESTIGATION OF THE PROPERTIES OF MELTS OF THE
 $PbO-SiO_2$ SYSTEMS BY THE ELECTROMOTIVE FORCE METHOD
AT 1200°C, BY V. I. MINENKO, ET AL.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, KHIM I KHIM
TEKH, VOL IV, NO 1, 1961, PP 3-6.

NLL M. 6170

SCI - CHEM

OCT 62

213,005

POLYMORPHIC TRANSFORMATIONS IN ALLOYS OF
IRON WITH COBALT AND PALLADIUM, BY V. V. KOOPRINA,
A. T. GRIGORYEV. *2. Kline*

RUSSIAN, PER, IZ VUZ, KHIM/TEKH, NO L, L96L,
PP 7-10.

TIL T 5264

SCI - MIN/MET

210,224

SEP 62

Kreshkov, A. P., Bykova, L. N., and Kazaryan, N. A.
THE DIFFERENTIAL TITRATION OF MIXTURES OF
STRONG, WEAK, AND VERY WEAK ACIDS IN METHYL
ETHYL KETONE MEDIA. [1962] 6p.
Order from ATS \$8.65 ATS-12P64R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
1961, v. 4, no. 1, p. 20-24.

DESCRIPTORS: Methyl radicals, Ethyl radicals, *Ke-
tones, *Acids, Titration.

(Chemistry--Analytical, TT, v. 9, no. 2)

63-12017

- I. Kreshkov, A. P.
- II. Bykova, L. N.
- III. Kazaryan, N. A.
- IV. ATS-12P64R
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RJ-4057

Office of Technical Services

An Investigation of the Effect of Complex Formation
of Alcohols With Electrolytes on the Curves of
Physical Titration Up to the Turbidity Point, by
B. K. Nikitin, S. I. Spiridonova.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khimich Tekh, Vol IV, No 1, 1961, pp 33-37.

BIBI 2571

Sci - Chem

204, 824

Jul 62

List 1300

Krasnov, K. S.
THE BOND ENERGY IN HALIDE MOLECULES OF
GROUP II AND AN IONIC MODEL. [1962] [8]p.
21 refs.

Order from OTS or SLA \$1.10

63-13578

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii.
[Khimiya i Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 1, p. 38-44.

DESCRIPTORS: *Halides, *Group II elements, Energy,
*Chemical bonds, Molecules, Ionization, Electrical
conductance.

A calculation was made of the bond energy of molecules
of halides of Group II of the periodic system on the basis
of an ionic model with coefficients of repulsion calcu-
lated from the effective charges of the ions. For salts
of BeHal₂, CaHal₂ and BaHal₂ the deviations of the
(Chemistry--Physical, TT, v. 9, no. 12) (over)

63-13578

I. Krasnov, K. S.
II. Translations, New York

Office of Technical Services

Kuznetsov, M. E. and Oratovskii, V. I.
RATE OF CHEMISORPTION IN A VENTURI-TYPE
APPARATUS. Apr 62, 4p. 2 refs.
Order from ICE is v. 2, no. 2, \$15.00/year

Trans. of Izvestiia Vysshikh Uchebnykh Zavedenii.
Khimiya i Khimicheskaya Tekhnologiya (USSR)
1961, v. 4, no. 1, p. 42-[147].
Another trans. is available from ATS \$9.70 as
ATS-83N57R [1961] 7p.

DESCRIPTORS: *Chemical engineering, *Venturitubes,
Towers (Chemistry), *Chemisorption, Velocity,
Equations, *Absorption, *Adsorption.

(Engineering--Chemical, TT, v. 8, no. 11)

62-3432;

I. Kuznetsov, M. D.
II. Oratovskii, V. I.
III. International Chemical
Engineering, New York

Office of Technical Services

HEAT TRANSFER FROM A GRANULAR LAYER TO A TUBE
WALL IN THE PRESENCE OF INTERNAL HEAT SOURCES,
BY V. A. RASTATURIN, 6 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED SSSR,
KHIM I KHIMICHESKAYA TEKH, NO 1, 1961, PP 138-
141. 9677358

FTD-TT-62-111

SCI-PHYS
10 JUL 62

202,256

Kuznetsov, M. D. and Oratovskii, V. I.
THE RATE OF CHEMISORPTION IN A VENTURI-
TYPE APPARATUS. [1961] 7p.
Order from ATS \$9.70

ATS-83N57R

Trans. of Izvestiya Vysshikh Uchebnykh
Zavedenii. Khimii i Khimicheskaya Tekhnologiya
(USSR) 1961, v. 4, no. 1, p. 142-147.

DESCRIPTORS: *Absorption, *Adsorption, Velocity,
Measurement, *Venturi tubes.

(Chemistry--Physical, TT, v. 7, no. 6)

62-12356

- I. Title: Chemisorption
- I. Kuznetsov, M. D.
- II. Oratovskii, V. I.
- III. ATS-83N57R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS RJ-3936

Office of Technical Services

62-26423

Gorbachev, S. V. and Sytilin, M. S.
ÉTUDE DE LA CINÉTIQUE DE LA RÉACTION
D'OXYDATION DE L'HYDROQUINONE PAR L'INTER-
MÉDIAIRE DU "REDOXYSTAT" (Issledovanie kinetiki
reaktsii oksidatsiya gidrokhinona s pomoshch'yu
redokstatov) (Kinetics of the oxidation of hydroquinone
with the help of a redoxstat). Sp. (foreign text
included). 3 refs FR-2575.
Order from OTS, ETC or CNRS \$0.80 62-26423

Trans. in French of Izvestiya Vysshikh Uchebnykh
Zavedeni. Khimiya i Khimicheskaya Tekhnologiya
(USSR) 1961, v. 4, no. 1, p. 133-137.

DESCRIPTORS: *Oxidation, Reaction kinetics.

(Chemistry--Physical, TT, v. 10, no. 10)

- I. Title: Hydroquinol
- I. Gorbachev, S. V.
- II. Sytilin, M. S.
- III. F/R-2575
- IV. Centre National de la
Recherche Scientifique

Office of Technical Services

(SF-1879)

On the Strength of Liquid Under Hydrostatic
Tension, by L. A. Gromov, M. K. Baransyev,
3 pp.

RUSSIAN, per, Iz Vysokikh Ucheb Zaved,
Khim i Khim Tekh, Vol IV, No 2, 1961,
pp 320-321.

JPRS 13149

Sci - Chem
Mar 62

189,331

(SF-1879/4)

LL-Union Inter-VUZ Conference on the Theory and
Practice of Rectification in the Chemical and the
Food Industries, by P. Tsygankov, 11 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved SSSR, Khim
Khim Tekh, Vol. IV, No 2, 1961, pp 328-332.

JPRS 4986

172,848

SSR

ecn

at 61

S-40/63

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Mn Solid Solutions, by I. Kh. Varivoda. *1/12*
(SF-2468)

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Khim i
Khim Tekh, Vol V, No 2, 1962, pp 264-266.

*JPRS

Sci - Chem

15 Jan 63

63-13422

Selivanova, N. M., and Pakhorukov, N. I.
ON THE HEATS OF SOLUTION OF SELENIOUS
ACID. [1962] [6]p. 8 refs.
Order from OTS or SLA \$1.10

63-13422

I. Selivanova, N. M.
II. Pakhorukov, N. I.
III. Translations, New York

Trans. of Izvestiya Vysshikh Uchebn[ykh] Zavedenii.
[Khimiya] [Khimicheskaya Tekhnologiya] (USSR) 1961
[v. 4] no. 3, p. 355-358.

DESCRIPTORS: *Heat of solution, Specific heat,
*Selenious acid, Selenium compounds, Dioxides,
Thermochemistry.

The purpose of the investigation was the determination
of the integral heats of solution in water of selenious
acid in solutions of various concentrations, and verifi-
cation of the values of the heat of solution in water of
selenium dioxide at a dilution of 1:200. (Author)

(Chemistry--Physical, TT, v. 10, no. 4)

Office of Technical Services

Gordievskii, A. V. and Ustyugov, G. P.
PHOTOMETRIC DETERMINATION OF BORON IN
MAGNESIUM ALLOYS. [1963] 5p.
Order from ATS \$6.50 ATS-85Q69R

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedenii
Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR) 1961,
v. 4, no. 3, p. 366-369.

DESCRIPTORS: *Boron, *Magnesium alloys,
*Photometers.

(Chemistry--Analytical, TT, v. 10, no. 3)

63-17481

- I. Gordievskii, A. V.
- II. Ustyugov, G. P.
- III. ATS-85Q69R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS RT-4128

Office of Technical Services

Alkylation of Aromatic Amines With Mannich
Bases, by G. I. Denis.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh
Zavedenii, Khimiya i Khimicheskaya Tekhnologiya,
Vol 4, No 3, 1961, pp 426-428.
NTC-71-10695-07C

Nov 71

Heat Transfer at Ribbed Tubular Surfaces Subject
to Lengthwise Flow, by N. H. Norkin, et al.

RUSSIAN, ~~per~~, Iz Vysshikh Ucheb Zaved Khim i Khim
Tekh, No 3, 1961, pp 518-519.

U.K. Atomic Energy Authority
Risley, TRG Inf Ser 163(W)

Sci - Chem
Jul 62

202,118

Fedorov, P. I., and Shakhova, M. N.
THE SATURATION VAPOR PRESSURE OF CUPROUS
BROMIDE AND CHLORIDE. [1962] [5]p. 14 refs.
Order from OTS or SLA \$1.10 63-13715

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni-
Khimiya (Khimicheskaya Tekhnologiya (USSR) 1961
[v. 4] no. 4, p. 550-553.

DESCRIPTORS: *Bromides, *Chlorides, *Copper com-
pounds, *Vapor pressure, Molecular association.

The boiling-point method and the saturation method were
used to determine the saturation vapor pressure of
copper bromide in the 400° to 800°C range. Comparison
of the experimental data obtained by these two methods
indicates that cuprous bromide is present in the vapor
as the trimer Cu_3Br_3 , at temperatures above 450°C.
Below this temperature further association of the
(Chemistry--Physical, TT, v. 10, no. 3) (over)

63-13715

I. Fedorov, P. I.
II. Shakhova, M. N.
III. Translations, New York

Office of Technical Services

Kudin, T. I. and Vlasyuk, M. A.
THE USE OF VIBRATING MILL FOR THE PRO-
DUCTION OF RONCALITE (Primeneniye Vibromel'nitsy
dlya Proizvodstva Rongalita). [1962] [8]p. (foreign text
included) 13 refs.

Order from OTS or SLA \$1.10

62-20237

Trans. of Izv[estiya] Vysshikh Uchebn[ykh] Zavedeni.
Khim[iya] / Khimicheskaya Tekhnologiya (USSR)
1961 [v. 4] no. 4, p. 636-638.

DESCRIPTORS: *Sulfites, Decomposition, Chemical
reactions, Reaction kinetics, Vibrators (Mechanical),
Production.

It has been established that metallic iron has no effect
on the reduction rate of sodium bisulfite by zinc powder
in the case of operating conditions of equipment such
as kettles with agitators. Production of rongalite in
(Engineering--Chemical, TT, v. 10, no. 7) (over)

62-20237

1. Title: Rongalite
I. Kudin, T. I.
II. Vlasyuk, M. A.

Office of Technical Services

Kunin, T. I. and Epifanov, V. S.
ON THE PROBLEM OF THE REACTION OF SODA
WITH SULFUR DIOXIDE IN A FLUIDIZED BED (K
Voprosu o Vzaimodelstvi Sody s Sernistym Angidri-
dom v Kipyashchem Sloe). [1962] [15]p. (foreign text
included) 11 refs.
Order from OTS or SLA \$1.60

63-10751

Trans. of Izv[estiya] Vysshikh Uchebn[ykh]
Zavedenii. Khim[iya] i Khim[icheskaya] Tekhnol[ogiya]
(USSR) 1961, v. 4 [no. 6] p. 992-997.

DESCRIPTORS: *Fluidized solids, *Sodium compounds,
Oxides, *Sulfur compounds, Dioxides, Chemical re-
actions, Adsorption, Water vapor, Temperature.

The influence of various factors on the rate of the
reaction between soda and sulfur dioxide under
fluidized bed conditions was investigated. The concen-
(Engineering--Chemical, TT, v. 10, no. 1) (over)

63-10751

I. Kunin, T. I.
II. Epifanov, V. S.

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Khimm. Tekh., Vol. 4, 1961, pp 1041-1042.
CSIRO/No. 6871

Sci -
July 1967

334-450

The Use of Tritium for the Determination of the
Relative Contents of the Amstraction Rates of the
Hydrogen Atoms in Organic Compounds. The Compara-
tive Reactivity of Carbon-Hydrogen Bonds of
Hydrocarbons in Radical Reactions, by V. L. Antonovsky,

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TIL/T5370

Sci - Chem

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May 63

TT-63-24091

Bulygin, B. M., Pobedinskii, S. N., and Kur'mia, L. L.
 ANODIC SOLUTION OF MAGNESIUM IN OXIDIZING
 ELECTROLYTES. [1963] [8p] 7 refs.
 C. E. Trans. 2945.
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Trans. of Izvestiya Vysshikh Uchebnykh Zavedeni.
 Khim[iya] i Khim[icheskaya] Tekhnol[ogiya] (USSR)
 1962, v. 5 [no. 1] p. 120-125. (Abstract available)

DESCRIPTORS: Electrolytes, Oxidation, *Magnesium
 compounds, Solutions, Anodes, *Electrochemistry.

Galvanic sources of electricity can function with a
 magnesium anode when the electrolyte is a solution of
 a pure oxidizing agent. In these circumstances, as a
 result of passivation of the surface by a protective,
 oxide film, the consumption of the metal and evolution
 (Chemistry-Physical, TT, v. 11, no. 3) (over)

- I. Bulygin, B. M.
- II. Pobedinskii, S. N.
- III. Kur'mia, L. L.
- IV. CE Trans-2945
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Generating Board
(Gt. Brit.)

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S-40/65

On the Problem of Corrosion Resistance Fe-Cr and
Fe-Mn Solid Solutions, by I. Kh. Varivoda. 4 pp.
(SF-2468)

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Khim Tekh, Vol V, No 2, 1962, pp 264-266.

JPRS/Special

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15 Jan 63

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Certain Regularities in the Plasticization of
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V. A. Byl'ev, 5pp
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SLA TT-64-16283

Sci - Mat
June 67

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JOINTS OF KIKHL8N9T STEEL, BY V. A. SUPRUNOV,
V. N. KISEL'NIKOV, 8 PP.

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JPRS 17356

SCI - CHEM

JAN 63

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Effect of the Enthalpy Criterion on Heat-Exchange
in Condensation of Steam From a Steam-Gas Mixture,
by I. A. Komarov.

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NIL RTS 2600 on per last or last

NAL Ref: 909194 (with Trans 29)

*UKAEA
Risley

TT-64-23501

Tr No ~~3~~

332

Sci - Phys
5 Mar 63

Arzumanov, A. O.
THE LACK OF FOUNDATION FOR THE THEORY OF
COVALENT CHEMICAL BONDING [AND] LETTERS
TO THE EDITOR (Nesostoyatel'nost' Kovalentnoi
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PL-480 Comm.

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v. 5, no. 4, p. 675-680. 9212592

DESCRIPTORS: Molecular structure, *Chemical bonds,
Theory, Atomic orbitals, Valence, Magnetic fields,
*Germanium compounds, Hydroxides, Solubility.

The data discussed demonstrate that the theory of covalent bonding is totally unfounded. A simple chemical bond should be regarded as being of the same homo-
(Chemistry, TT, v. 10, no. 3) (over)

63-11186

- I. Arzumanov, A. O.
- II. PL-480 Comm (63-11186)
- III. National Science Foundation, Washington, D. C.

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S. A. Shchukarev, et al.
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NASA TT F-9776

Sci-Chem
Mar 66

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V. A. Zagoruchenko

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NTC 72-13381-07D

NTIS TT 69-55049

Oct 72

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21 Jan 64 [2p] (foreign text included) 3 refs
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(Chemistry--Physical, TT, v. 11, no. 12)

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No 6, 1962, pp 954-959. PS00252567
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[v. 5] no. 5, p. 986-994.

DESCRIPTORS: Chemical engineering. *Viscosity,
Heat transfer, Liquid metals, *Thermal conductivity,
Organic compounds.

(Physics--Thermodynamics, TT, v. 10, no. 7)

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III. International Chemical
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Study of the Extent to Which Apparent Equilibrium
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Temperature Changes, by V.S.Soldatov and
G.I.Starobinets.

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Investigation of Systems in the Liquid Crystal State.
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Chistyakov, I. G., Usol'tseva, V. A.,
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I. Chistyakov, I. G.
II. Usol'tseva, V. A.
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- III. ATS-67R75R
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Office of Technical Services

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TT-65-13894

Field 7C

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